

REPORT  
OF THE  
DEPARTMENT OF HEALTH  
OF THE  
PANAMA CANAL  
FOR THE  
MONTH OF OCTOBER, 1914

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CHAS. F. MASON

Lieut. Colonel, Medical Corps, United States Army  
Chief Health Officer, Balboa Heights, Canal Zone

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*Gift of the Panama Canal Museum*

WASHINGTON  
1915



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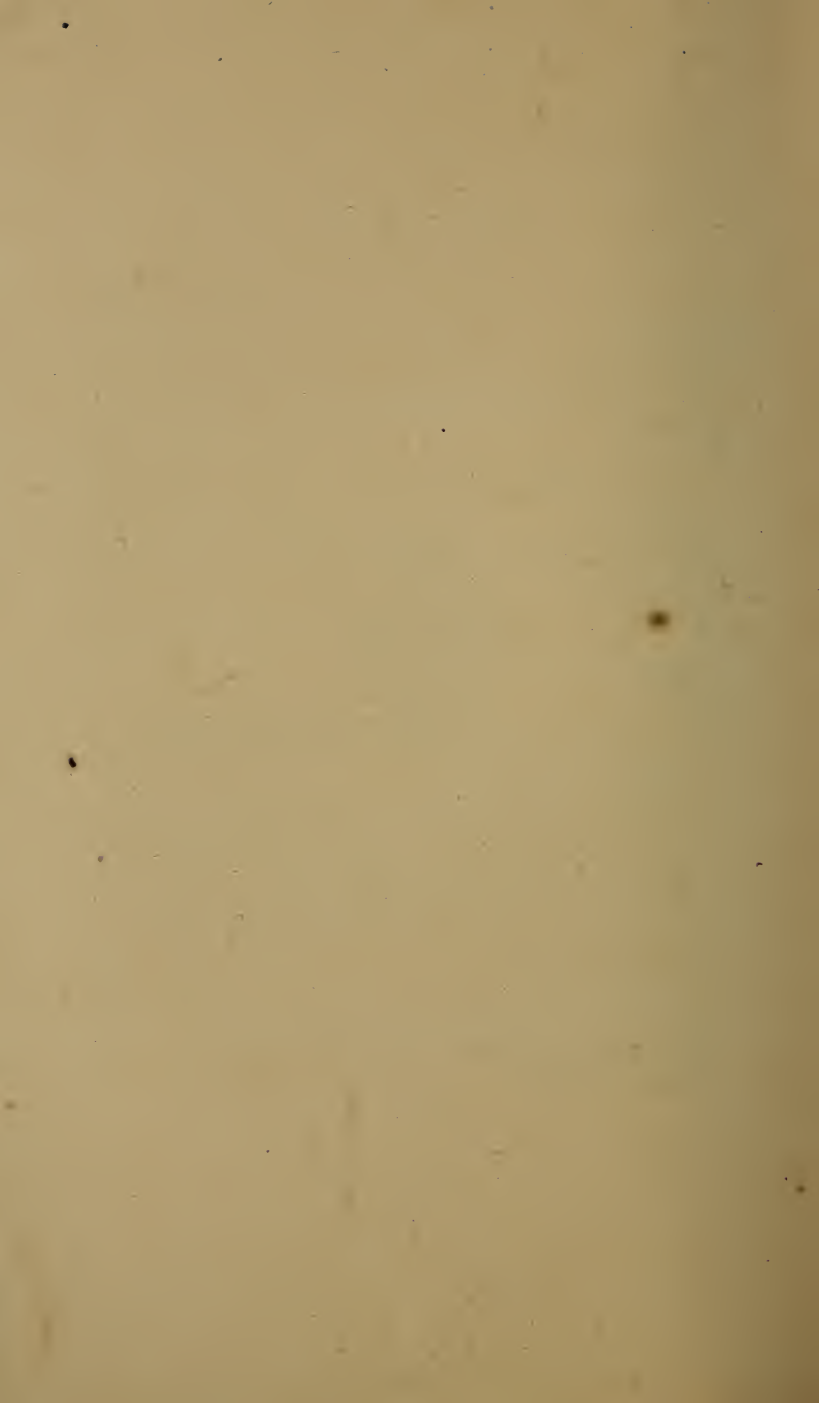
WASHINGTON  
1914



# CONTENTS.

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	Page.
Letter of transmittal.....	5
General remarks.....	5
Vital statistics:	
Health of employees.....	6
Health of residents of Canal Zone.....	7
Health of residents of the city of Panama.....	7
Health of residents of the city of Colon.....	7
Hospital division:	
Ancon Hospital.....	8
Board of health laboratory.....	8
Farm for disabled.....	8
Insane department.....	8
Chronic ward.....	9
Colon Hospital.....	9
Palo Seco Leper Asylum.....	9
Santo Tomas Hospital.....	9
District dispensaries.....	9
Sanitary division:	
Canal Zone.....	9
Panama.....	10
Colon.....	12
Quarantine division:	
Panama.....	12
Colon.....	12
Statistical tables:	
Table I. Admissions, deaths, and noneffective rates for employees; deaths of residents of Panama, Colon, and the Canal Zone..	13
II. Deaths by age, color, and sex.....	14
III. Deaths by nationality.....	15
IV. Deaths of white Americans.....	15
V. Causes of deaths of employees.....	16
VI. Causes of deaths of employees and civil population and places where chargeable.....	16
VII. Admissions and deaths in the hospitals of the Panama Canal..	18
VIII. Consolidated hospital report.....	30
IX. Consolidated dispensary and admission report.....	32
X. Employees: Constantly sick and noneffective rates per 1,000...	33
XI. Employees: Day's treatment per admission, hospitals and quar- ters.....	34
XII. Financial statement.....	34
XIII. Ancon Hospital.....	35
XIV. Colon Hospital.....	40
XV. Palo Seco Leper Asylum.....	41
XVI. Santo Tomas Hospital.....	42
XVII. Sanitary work done in Canal Zone, Panama, and Colon.....	44
XVIII. Quarantine transactions.....	46
XIX. Issues of quinine.....	49
XX. Personnel report.....	49



## LETTER OF TRANSMITTAL.

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THE PANAMA CANAL, CANAL ZONE,  
DEPARTMENT OF HEALTH,  
*Balboa Heights, Canal Zone, November 11, 1914.*

Col. GEORGE W. GEOTHALS,  
*Governor of the Panama Canal,  
Balboa Heights, Canal Zone.*

SIR: I have the honor to submit the following report of the operations of the department of health for the month of October, 1914.

Very respectfully,

CHAS. F. MASON,  
*Chief Health Officer.*

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### GENERAL REMARKS.

No cases of yellow fever, smallpox, or plague originated on or were brought to the Isthmus during the month.

Since the last report the following new or amended sanitary ordinances for the cities of Panama and Colon have become effective:

(1) Providing for the service of notices for the removal of nuisances and unsanitary or unsafe structures, by posting.

(2) Forbidding the establishment or maintenance of private hospitals.

(3) Providing for the more effective rat proofing of stables.

The following new or amended sanitary ordinances have been approved and will go into effect on November 15, 1914, except No. 9, which will be effective January 1, 1915:

(4) Providing for the more effective collection and protection of garbage.

(5) Providing for the proper maintenance of sidewalks, areas, and yards.

(6) Providing for proper reporting and registration of contagious and infectious diseases.

(7) Providing for the protection of fowls and animals and their food from rats.

(8) Providing for the more effective rat proofing of buildings.

(9) Providing for proper reporting and registration of births and deaths.

Ordinance No. 1 provides a more expeditious method of serving notices than that formerly employed. No. 2 is intended to keep the control of hospital activities directly under the department in



order to better safeguard the public interests against the introduction and spread of infectious diseases. Nos. 3, 4, 7, and 8 are for the prevention of the spread of plague should it be introduced. No. 5 is of general application, while Nos. 6 and 9 provide for the proper registration of vital statistics and are based upon the model laws.

During the month the preparation of smallpox vaccine virus by the Board of Health Laboratory, on the Istimus, has been commenced. In a short time the department will be able to furnish all the vaccine that is needed, in a fresh and reliable condition, and at a decidedly reduced expense.

## VITAL STATISTICS.

### EMPLOYEES.

The health of the employees was better than for any previous month. The number of names on the rolls for the preceding month was 38,416.

The total number of admissions to hospitals and quarters was 1,102, a rate of 344.23 per thousand, as compared with 365.70 for the preceding month and 492.80 for the corresponding month of last year.

The total number of deaths from all causes was 23. Of these, 15 died from disease, or 4.68 per thousand, as compared with 5.31 for the preceding month, and 5.14 for the corresponding month of last year. The diseases causing the largest number of deaths were as follows: Lobar pneumonia, 5; malarial fever, estivo-autumnal, 2; organic disease of heart, 2; tuberculosis, 3. No other disease caused more than 1 death.

The constantly noneffective rate was 11.18, compared with 10.97 for the preceding month and 14.58 for the corresponding month of last year.

The total admission rate for malaria, hospitals and quarters, was 76.22, compared with 77.39 for last month, and the total noneffective rate 1.36, compared with 1.43 for last month; each of these rates was lower than for the same month last year.

The diseases next to malaria causing the highest admission rates, in the order of their numerical importance, were venereal diseases, diseases of the digestive, nervous, and respiratory systems. These five classes of diseases caused 54 per cent of all admissions to hospitals.

There was one admission for typhoid fever, giving a rate of 0.31 per thousand, compared with 0.59 for last month and 0.62 for the corresponding period of last year.

### EFFECTS OF RACE.

The admission rate to hospitals and death rate for disease for black employees were 135.40 and 5.34 per thousand, as compared with 355.03 and 1.87 for white employees. The noneffective rate for disease and injuries for black employees per thousand was 9.65, as compared with 18.74 for white employees.

The admission rate to hospitals and quarters for malaria was 58.51 per thousand for blacks, as compared with 164.43 for whites.



The death rate for Americans was 2.29, as compared with 10.11 for Europeans. The admission rate to hospitals for disease for the latter was 626.79, compared with 293.41 for Americans. The admission rate for malaria to hospitals and quarters was also much higher among the Europeans, being 343.71, as compared with 123.78 for Americans.

#### DEPORTATIONS.

There were 19 deportations accomplished during the month, 10 employees and 9 nonemployees; for disease, 15, and for injury, 4.

#### CANAL ZONE.

Among the 36,395 residents of the Canal Zone there were a total of 49 deaths; of these, 42 deaths were from disease, giving a rate of 13.85 per thousand, as compared with 13.11 for the preceding month and 15.91 for the corresponding month of last year. Of the total deaths from disease the percentage under 5 years of age was 45, compared with 29 last month.

There were 46 births reported, giving a rate of 15.17 per thousand. Of these births 10 were of white and 36 of colored children. There were no deaths of white and 15 deaths of colored children under 1 year of age, giving an infant mortality per thousand of 417 for colored children, with a general average of 326.

#### PANAMA CITY.

The population of the city is 60,000, among whom there were a total of 163 deaths; of these 160 deaths were from disease, giving a rate of 32 per thousand, as compared with 32 for the preceding month and 32.56 for the corresponding month of last year. Of the total deaths from disease the percentage under 5 years of age was 47, compared with 50 last month. The principal causes of death showing an increase as compared with September were: Dysentery 9, compared with 3 last month; pellagra 5, compared with 3 last month; and nephritis 15, against 12 for the preceding month.

There were 256 births reported, giving a rate of 51.20 per thousand. The infant mortality was 203 per thousand.

The outbreak of beriberi reported last month is subsiding, only 2 new cases were reported in October. Careful investigation has revealed nothing of special interest; the factors common to all cases were improper diet and bad sanitary surroundings.

#### COLON.

The population of the city is 29,331, among whom there were 51 deaths; of these 49 were from disease, giving a rate of 20.05 per thousand, as compared with 27 for the preceding month and 23.14 for the corresponding month of last year. Of the total deaths from disease the percentage under 5 years of age was 39, compared with 47 last month.

The principal causes of death showing an increase as compared with September were: Pellagra 2, compared with 0 for September; organic disease of heart 4, compared with 3 last month.

There were 156 births reported, giving a rate of 63.82 per thousand. The infant mortality was 109 per thousand.

## HOSPITAL DIVISION.

## ANCON HOSPITAL.

During the month the average number of patients constantly in hospital was 511. The per capita cost of patients in hospital proper was \$1.895 gross and \$1.052 net. The per capita cost of patients in the insane asylum was \$0.51.

## BOARD OF HEALTH LABORATORY.

The following work in addition to the usual routine was done:

The preparation of smallpox vaccine for local use by the health department was begun during the month. It is proposed to prepare about 3,000 points of glycerinated vaccine per month.

The examinations of placental and peripheral blood with relation to the diagnoses of malaria, are being continued. Data are being collected on the incidence of malignant and benign neoplasms among the white, mestizo, and negro employees.

Data are being collected to show the marked diminution in the number and grade of hookworm infections noted during the past few years among the laborers employed on the canal, as a result of the improved hygienic and sanitary conditions under which they live.

Considerable time has been spent in collecting and preparing material and data for the exhibits at Panama and San Francisco.

## FARM FOR DISABLED.

The per capita cost was \$0.42, as compared with \$0.30 in September. Grading of road and site for cow barn was continued during the month. In addition to this, fencing of hog lots, repairing pasture fence, and cultivating garden and nursery were done.

## INSANE DEPARTMENT.

Twenty patients were admitted for mental observation during October, none of whom had been in the institution previously. Seven of the total admissions were whites of several nationalities.

Ten male patients were deported—to Grenada, 2; Guadeloupe, 1; Portugal, 1; St. Lucia, 2; Trinidad, 1; and St. Vincent, 3.

The improvised quarters for the insane at Crozal, made necessary by the reversion of the prison stockade to the division of police and fire, were ready for occupation on the 2d instant, and 30 patients were returned to the hospital farm on that date. These have recently been furnished employment in excavating for the cow barn and piggery to be erected at that place.

The sewing room with its staff of seamstresses, formerly attached to the Ancon Hospital storehouse, has been transferred permanently to the asylum, in order to provide further occupational diversion for the inmates among the females. In addition to the making of sheets, pillowcases, aprons, etc., for the hospital, the repairing for the laundry at Ancon will be continued as heretofore. A commodious building has been set aside as a sewing room, with facilities for the storing of stock materials to be used during the ensuing year.

The general health of the population continues excellent.

## CHRONIC WARD.

There were 28.16 chronic and incurable patients constantly cared for during the month.

Detailed statistics are shown in Table XIII.

## COLON HOSPITAL.

The highest number of patients treated on any one day during the month was 52, the lowest number 24, the daily average being 41.50. The average number of employees constantly sick was 30.22; the average number of day's treatment per employee was 8.54.

Detailed statistics are shown in Table XIV.

## PALO SECO LEPER ASYLUM.

The number of patients under treatment at the end of the month was 50, a decrease of 1 over the previous month. The per capita cost per patient was \$0.90.

Detailed statistics are shown in Table XV.

## SANTO TOMAS HOSPITAL.

The number of patients constantly sick in hospital has shown a progressive increase over the previous month and is larger than at any other period of the history of the hospital. During this month a total of 1,581 patients were treated, an increase of 153 over the previous month. The daily average of patients reached 452, an increase of 19 over September, while the number of hospital days reached 14,019 as compared with 12,991 for the previous month.

The number of deaths in hospital was 81 for the month, of whom 9 gave Colon as their residence. The number of births was 95, of which number 14 were stillborn.

During the month there has been a decrease in the number of cases of beriberi treated, but admissions for this cause are being constantly made and many of these patients give Panama as their residence. Malaria is increasing, and the estivo-autumnal type is the prevailing type of infection, outnumbering the other types about 5 to 1.

Detailed statistics are shown in Table XVI.

## DISTRICT DISPENSARIES.

The dispensary having the highest admission rate for malaria was Ancon, with an average weekly percentage of 0.26; that having the lowest was Paraiso, with a percentage of 0.06.

Detailed statistics are shown in Table IX.

## SANITATION.

## CANAL ZONE.

The malaria rate remains lower than in any previous year, and it is thought that some progress is now being made in getting malarial cases to continue treatment after their discharge from hospital.

There was a fairly general increase in the *Anopheles* catch during the month, accounted for by the abundance of rain.

The antimosquito work on the hydraulic fill back of Ancon and that back of San Miguel district of Panama has been continued with satisfactory results.

General sanitary conditions have been excellent, as shown by the practical absence of diseases other than malaria that can be traced directly to sanitary faults. Measles and mumps have spread somewhat, though less it is thought than would have been the case in the United States had they been introduced into schools and barracks.

The physical examination of food handlers and bacteriological examination of their stools is being extended.

The use of larvacide has been cut to less than 10 per cent of the former figure without harm and with a considerable saving of money. The use of crude oil has also been considerably reduced in some districts, and with satisfactory results.

The following communicable diseases were reported during the month:

Measles.....	2	Tuberculosis (of any organ).....	2
Mumps.....	4	Infectious diseases of the eye.....	1
Mariarial fever.....	249	Erysipelas.....	1
Tetanus.....	1	Whooping cough.....	15

Detailed statistics are shown in Table XVII.

#### PANAMA.

The following communicable diseases were reported during the month:

Typhoid fever.....	2	Diphtheria (croup).....	3
Mumps.....	3	Beriberi.....	2

The three cases of diphtheria reported proved to be of a very mild character.

The rate for malaria continues rather high, especially from that section of the city known as Calidonia-Guachapali. The large number of people chronically infected who have recently moved into the city from the condemned settlements of Trujillo and Pena Prieta doubtless is an important factor in the situation. It has been the custom with some of the local physicians to state the cause of death as "malaria" in moribund infants presenting high temperatures and large spleens, but not confirmed by the microscope. It is probable that very few of these cases are really malaria.

#### VACCINATIONS.

The total number of vaccinations since April 1 is 10,923, only 1,444 being performed for the month, due to the lack of supply of points. No infected arms have yet been reported to the office.

#### MOSQUITO, RAT, AND FLY WORK.

*Mosquitoes.*—With the heavier rains incident to this season there is an increase in the number of mosquito-breeding places found. Several large areas in which *Anopheles* were breeding have been abolished by adequate ditching. Special attention was given toward eliminating any breeding adjacent to the exposition grounds on the south side of Calidonia Road and that area lying

on the north side of the road close to the public wash house, where *Anopheles* were found in great numbers. Considerable grass cutting on the part of the owners of vacant lots throughout the city was instituted and is helpful.

*Flies*.—The public dump continues to be the largest fly-breeding area in the city and we have been able to catch them as fast as they are bred, 218 quarts being taken for the month. Three hundred and eighty-four deposits of fly larva were found and destroyed. With the heavy rains there has been a reduction in the fly-breeding places and an increase in the mosquito-breeding places, which is to be expected.

*Rats*.—Of the 608 rats trapped during the month throughout various sections of the city, chiefly along the water front, all of which were examined at the laboratory for plague, none were infected.

#### PURE-FOOD INSPECTIONS.

The public milk supply is examined monthly with very satisfactory results.

Scoring of hotels, bakeries, bottling works, and dairies still creates a certain amount of competitive enthusiasm in owners, and the condition of these establishments generally is good.

#### GARBAGE COLLECTION.

The collection and disposition of garbage for the month was carried on with success, the garbage being taken once a day in all parts of the city, except in the more congested districts, where it is found necessary to make two collections each day. A large number of self-closing wooden covers for garbage cans were installed during the month. "These covers are especially useful in the tenement house, where protection of food refuse against flies and rats is not given very serious consideration by the occupants. The entire district of Chorillo is supplied with cans and covers, and the same work in the Calidonia-Guachapali district is being pushed to completion.

#### STREET CLEANING.

The daily cleaning of streets for the city has been efficiently prosecuted, with the combined method of machine and hand brooms. A slight cost reduction has been effected over that of the preceding month.

#### BUILDINGS.

Since the work was begun in April last, 1,034 permits have been issued to date, of which 70 per cent are found to be completed. It is noted that of this number 213 of the permits were for new buildings, whereas 821 were for repairing and rat-proofing old buildings. Of the 186 buildings demolished since April, the great majority of these were in such a wretched condition as to be uninhabitable, particularly along the beach, where the "squatter type" of buildings were encountered. It was found that in nearly every such establishment *Stegomyia* breeding had been occurring, owing to their water supply being taken from some vender and stored in unscreened jars or barrels. The demolishing of these settlements removes a serious menace to public health.

Detailed statistics are shown in Table XVII



## COLON.

The consolidation of the work of garbage collection and grass cutting in the cities of Cristobal and Colon was effected October 19. These features of the sanitation of Cristobal were previously done by the supply department.

The construction of the sea wall at Folks River is progressing rapidly, and will be a great sanitary improvement to the city when completed.

Investigation of the mosquito-breeding areas in the Mount Hope district has been made through the board of health laboratory, and it has been observed that the breeding areas of the malaria mosquito have been reduced to a noticeable extent, through depopulation of the district. The practical result of this observation will be less expense to the department and a reduction of the malaria rate.

The health conditions of all the dredges in the Atlantic division have been improved since the inspection of the previous month.

Thirty-seven houses on Guava Ridge were destroyed by fire as a result of their condemnation for sanitary reasons and failure on the part of the owners to demolish same.

The anti-rat campaign has been maintained by trapping and poisoning, and there has been a noticeable reduction in the number of rats found on the docks and along the water front.

The following cases of communicable diseases were reported during the month:

Measles.....	17	Mumps .....	5
Typhoid fever.....	1	Diphtheria (croup) .....	1

The number of people examined for vaccination was 1,208. Of these, 973 were found protected and 235 were vaccinated.

Detailed statistics are shown in Table XVII.

## QUARANTINE SERVICE.

The plague situation in South America shows a slight change, with the new case reported at Rio de Janerio and an increase in the number of plague cases at Guayaquil, Ecuador; the number of cases in the districts of Arequiba and in the vicinity of Trujillo, in Peru, still remains high, but for several years these have been the worst infected districts in that country.

On account of the European war and the alleged presence of German warships on the west coast, the passenger traffic has markedly decreased. The number of cargo ships, however, entering for passage through the canal has increased the number of ships on the Pacific side considerably, the number entering Balboa during the past month being 62.

With reference to immigration: Arrivals from Jamaica and other West Indian ports show marked decrease from previous months. Total apparent decrease for the month of August, 697; for September, 1,228; and for the month of October, 2,038.

During the month of October, covered by this report, no disease of a quarantinable nature arrived at any of our ports.

Detailed statistics are shown in Table XVIII.

TABLE I.—ADMISSIONS, DEATHS, AND NONEFFECTIVE RATES FOR EMPLOYEES: DEATHS OF RESIDENTS OF PANAMA, COLON, AND THE CANAL ZONE.

ABSOLUTE NUMBERS.

Color.	Number of employees.	Admissions to hospitals.			Died.			Noneffective from sickness.	
		Total.	Disease.	External causes.	Total.	Disease.	External causes.	Days treated.	Constantly noneffective.
Oct., 1914.									
White.....	6,422	232	190	42	2	1	1	3,731	120.36
Colored.....	31,994	502	361	141	21	14	7	9,577	308.93
Total.....	38,416	734	551	183	23	15	8	13,308	429.29
Sept., 1914.									
White.....	6,655	237	203	34	5	3	2	3,681	122.70
Colored.....	33,968	528	410	118	17	15	2	9,690	323.01
Total.....	40,623	765	613	152	22	18	4	13,371	445.71
Oct., 1913.									
White.....	11,216	658	529	129	6	3	3	11,021	355.50
Colored.....	47,128	880	637	243	31	22	9	15,356	495.34
Total.....	58,344	1,538	1,166	372	37	25	12	26,377	850.84

PROPORTIONATE NUMBERS.<sup>1</sup>

<i>Oct., 1914.</i>									
White.....	6,422	433.51	355.03	78.48	3.74	1.87	1.87	.....	18.74
Colored.....	31,994	188.29	135.40	52.89	7.87	5.24	2.63	.....	9.65
Total.....	38,416	229.28	172.12	57.16	7.18	4.68	2.50	.....	11.18
<i>Sept., 1914.</i>									
White.....	6,655	427.35	366.04	61.31	9.02	5.41	3.61	.....	18.44
Colored.....	33,968	186.53	144.84	41.69	6.06	5.36	.70	.....	9.50
Total.....	40,623	225.98	181.08	44.90	6.49	5.31	1.18	.....	10.97
<i>Oct., 1913.</i>									
White.....	11,216	703.99	565.98	138.01	6.42	3.21	3.21	.....	31.69
Colored.....	47,128	224.07	162.19	61.88	7.89	5.60	2.29	.....	10.51
Total.....	58,344	316.33	239.82	76.51	7.61	5.14	2.47	.....	14.58

<sup>1</sup> Annual average per 1,000.



TABLE I.—ADMISSIONS, DEATHS, AND NONEFFECTIVE RATES FOR EMPLOYEES: DEATHS OF RESIDENTS OF PANAMA, COLON, AND THE CANAL ZONE—Continued.

## PROPORTIONATE NUMBERS—Continued.

Place.	Popula- tion.	Deaths.			Annual average per 1,000		
		Total.	Dis- ease.	Exter- nal causes.	Total.	Dis- ease.	Exter- nal causes.
<i>October, 1914.</i>							
Panama.....	60,000	163	160	3	32.60	32.00	0.60
Colon.....	29,331	51	49	2	20.87	20.05	.82
Canal Zone.....	36,395	49	42	7	16.16	13.85	2.31
Total.....	125,726	263	251	12	25.10	23.96	1.14
<i>September, 1914.</i>							
Panama.....	60,000	168	160	8	33.60	32.00	1.60
Colon.....	29,331	66	66	—	27.00	27.00	—
Canal Zone.....	37,533	46	41	5	14.71	13.11	1.60
Total.....	126,864	280	267	13	26.48	25.25	1.23
<i>October, 1913.</i>							
Panama.....	47,172	134	128	6	34.09	32.56	1.53
Colon.....	20,232	41	39	2	24.32	23.14	1.18
Canal Zone.....	59,567	93	79	14	18.73	15.91	2.82
Total.....	126,971	268	246	22	25.33	23.24	2.09

TABLE II.—DEATHS BY AGE, COLOR, AND SEX.

Age.	White.			Colored.			Yellow.			Total.		
	Male.	Female.	Total.	Male.	Female.	Total.	Male.	Female.	Total.	Male.	Female.	Total.
Under 1 year.....	1	3	4	48	32	80	—	—	—	49	35	84
1 to 4 years.....	1	1	2	15	12	27	—	—	—	16	13	29
5 to 10 years.....	—	1	1	2	1	3	—	—	—	2	2	4
11 to 20 years.....	3	—	3	6	7	13	—	—	—	9	7	16
21 to 30 years.....	1	1	2	23	20	43	—	—	—	24	21	45
31 to 40 years.....	3	1	4	18	8	26	3	—	3	24	9	33
41 to 50 years.....	1	1	2	9	9	18	—	—	—	10	10	20
51 to 60 years.....	—	1	1	11	1	12	—	—	—	11	2	13
61 to 70 years.....	1	—	1	5	4	9	—	—	—	6	4	10
71 to 80 years.....	—	—	—	—	4	4	—	—	—	—	4	4
81 to 90 years.....	—	—	—	1	1	2	—	—	—	1	1	2
Not stated.....	1	—	1	1	1	2	—	—	—	2	1	3
Total.....	12	9	21	139	100	239	3	—	3	154	109	263

TABLE III.—DEATHS BY NATIONALITY.

Nations.	Employees.	Nonem- ployees.	Total.
Antigua.....		1	1
Barbados.....	6	22	28
Chile.....		1	1
China.....		3	3
Colombia.....		11	11
Cuba.....		2	2
Fortune Islands.....	2		2
Grenada.....		5	5
Guatemala.....		1	1
Haiti.....		1	1
Italy.....		1	1
Jamaica.....	11	44	55
Martinique.....	1	8	9
Panama.....		121	121
Portugal.....		1	1
Spain.....	1	2	3
St. Kitts.....	1	1	2
St. Lucia.....		4	4
St. Thomas.....		1	1
Switzerland.....		1	1
Trinidad.....		2	2
United States.....	1	5	6
Venezuela.....		1	1
West Indies.....		1	1
Total.....	23	240	263

TABLE IV.—DEATH RATE AMONG AMERICANS ON THE ISTHMUS CONNECTED WITH THE PANAMA CANAL.

	Cases.	Cause of death.	Number of deaths.	Annual average per 1,000.
White employees from the United States.....	5,235	Disease.....		
		Violence.....	1	2.29
		All causes.....	1	2.29
White women and children from the United States.....	3,706	Disease.....	2	6.48
		Violence.....		
		All causes.....	2	6.48
White employees and their families from the United States.....	8,941	Disease.....	2	2.68
		Violence.....	1	1.34
		All causes.....	3	4.02
Total number of Americans on the Canal Zone.....	12,584	Disease.....	2	1.91
		Violence.....	1	.95
		All causes.....	3	2.86

TABLE V.—CAUSES OF DEATHS OF EMPLOYEES OF THE PANAMA CANAL AND PANAMA RAILROAD.

Causes of death.	White.	Colored.	Total.
<i>Disease.</i>			
Abscess of liver.....		1	1
Chronic nephritis.....		1	1
Lobar pneumonia.....		5	5
Malarial fever, estivo autumnal.....	1	1	2
Organic disease of heart.....		2	2
Pneumococcus meningitis.....		1	1
Tuberculosis, disseminated.....		2	2
Tuberculosis of the lungs.....		1	1
<i>External causes.</i>			
Accidental drowning.....		4	4
Suicide by firearms.....	1		1
Railroad traumatism.....		1	1
Traumatisms by other crushings.....		1	1
Traumatisms in mines and quarries.....		1	1
Total.....	2	21	23

TABLE VI.—CAUSES OF DEATHS OF EMPLOYEES AND CIVIL POPULATION AND PLACES WHERE CHARGEABLE.

Disease.	Pana- ma.	Colon.	Canal Zone.	Total.
<i>General diseases.</i>				
Malaria.....	1			1
Malarial fever:				
Estivo autumnal.....	2		3	5
Undetermined.....	1		1	2
Clinical.....	5		2	7
Hemoglobinuric fever, malarial.....	1			1
Dysentery.....	7			7
Entamebic.....	1			1
Unclassified.....	1			1
Purulent infection and septicemia.....	1		1	2
Septicemia.....	1		1	2
Tetanus.....	2			2
Pellagra.....	5	2		7
Beriberi.....	2			2
Tuberculosis of the lungs.....	16	6	2	24
Disseminated tuberculosis.....		2	4	6
Syphilis:				
Hereditary.....	1		1	2
Period not stated.....	1	1		2
Gonorrheal orchitis and epididymitis.....		1		1
Cancer and other malignant tumors of the female genital organs.....	2			2
Scurvy.....	1			1
Anemia, chlorosis.....	1			1
Purpura hemorrhagica.....	1			1
Alcoholism:				
Acute or chronic.....	1			1
Acute.....		1		1
<i>Diseases of the nervous system and of the organs of     special sense.</i>				
Pneumococcus meningitis.....	1	1		2
Cerebral hemorrhage, apoplexy.....		1		1
Other diseases of the nervous system.....	1			1

TABLE VI.—CAUSES OF DEATHS OF EMPLOYEES AND CIVIL POPULATION AND PLACES WHERE CHARGEABLE—Continued.

Disease.	Panama.	Colon.	Canal Zone.	Total.
<i>Diseases of the circulatory system.</i>				
Acute endocarditis.....	5			5
Organic diseases of the heart.....	4	4	3	11
Arteriosclerosis.....		1		1
<i>Diseases of the respiratory system.</i>				
Acute bronchitis.....	3	5		8
Broncho-pneumonia.....	14	1	1	16
Pneumonia (unqualified).....	5		2	7
Lobar pneumonia.....	6	3	2	11
<i>Diseases of the digestive system.</i>				
Ulcer of the stomach.....	1			1
Acute gastritis.....		1		1
Acute indigestion.....		1		1
Diarrhea and enteritis (under 2 years).....	26	3	8	37
Ankylostomiasis.....		1		1
Acute appendicitis.....	1			1
Hernia, intestinal obstructions.....	1			1
Intestinal obstruction.....	1	1	1	3
Acute yellow atrophy of the liver.....	1			1
Cirrhosis of the liver.....	2			2
Abscess of liver (unqualified).....			1	1
<i>Nonvenereal diseases of the genito-urinary system and annexa.</i>				
Acute nephritis.....	1			1
Bright's disease (chronic nephritis).....	14	2	2	18
Other diseases of the kidney and annexa.....	2			2
Diseases of the urethra, urinary abscess, etc.....			1	1
Salpingitis and other diseases of the female genital organs.....	1			1
<i>The puerperal state.</i>				
Puerperal hemorrhage.....	1	1		2
Other accidents of labor.....	1			1
Puerperal septicemia.....		1		1
Eclampsia.....	1	1		2
<i>Diseases of early infancy.</i>				
Congenital debility, icterus, and sclerema.....	1			1
Premature birth.....	2		3	5
Congenital debility.....	2	4		6
Malnutrition.....	3	2	1	6
<i>Old age.</i>				
Senility.....	1	2	2	5
<i>Affections produced by external causes.</i>				
Suicide by firearms.....	1		1	2
Poisoning by food.....			1	1
Other acute poisonings.....	1			1
Accidental drowning.....	1	1	2	4
Traumatism in mines and quarries.....			1	1
Traumatism by other crushings (vehicles, railroads, landslides, etc.).....		1	1	2
Homicide by other means.....			1	1
<i>Ill-defined diseases.</i>				
Sudden death.....	2			2
Cause of death not specified or ill defined.....	2			2
Total.....	163	51	49	263
Stillbirths.....	24	6	8	38
Grand total.....	187	57	57	301

TABLE VII.—TABLE SHOWING ADMISSIONS AND DEATHS IN OCTOBER.

Diseases.	Ancon Hospital.											
	Employees.						Nonemployees.					
	Admissions.			Deaths.			Admissions.			Deaths.		
	White.		Black.	White.		Black.	White.		Black.	White.		Black.
	Americans.	Europeans.		Americans.	Europeans.		Soldiers.	Others.		Soldiers.	Others.	
<i>General diseases.</i>												
Typhoid fever.....			1									
Malarial fever:												
Estivo-autumnal.....	7	15	79			1	1	7	8			
Tertian.....	3	1	4				9	5				
Clinical.....	9	12	48				2	5	6			
Cachexia.....	1											
Hemoglobinuric fever, ma- larial.....		1						1				
Measles.....	1		11				1	1	4			
Influenza.....	1											
Dysentery:												
Entamoebic.....								1				
Bacillary.....	1											
Erysipelas.....								1				
Dengue.....	1											
Mumps.....		2	17									
Yaws.....												
Acute infectious jaundice (Weill's disease).....							2					
Purulent infection and sep- ticemia.....								1	1		1	1
Tetanus.....									1			1
Pellagra.....			1						1			
Tuberculosis of the lungs....	1		1			1		1	3			
Tuberculosis of the lymph glands.....									1			
Disseminated tuberculosis..			1			2			1			3
Syphilis:												
Primary.....									1			
Secondary.....	1											
Tertiary.....	2	1	3				2					
Period not stated.....	3		15				1		11			1
Gonorrhea.....	4	1	14				20	1	1			
Gonorrheal arthritis.....	1		4									
Gonorrheal bubo.....			2									
Gonorrheal orchitis and epididymitis.....	1	1					1					
Gonorrheal ophthalmia.....									1			
Soft chancre.....			6				9		2			
Adenitis chancroidal and other malign- ant sores of the buccal	1		6				3		1			



TABLE VII.—TABLE SHOWING ADMISSIONS AND DEATHS IN  
OCTOBER

Diseases.	Ancon Hospital.											
	Employees.						Nonemployees.					
	Admissions.			Deaths.			Admissions.			Deaths.		
	White.			White.			White.			White.		
	Americans.	Europeans.	Black.	Americans.	Europeans.	Black.	Soldiers.	Others.	Black.	Soldiers.	Others.	Black.
<i>General diseases—Contd.</i>												
Cancer and other malignant tumors of the stomach and liver.....								1				
Cancer and other malignant tumors of the female genital organs.....									1			
Cancer and other malignant tumors of the breast.....									1			
Other tumors (tumors of the female genital organs excepted).....			1				1					
Acute articular rheumatism.....												
Chronic rheumatism and gout.....	1											
Anemia secondary, cause not determined.....								1	1			
Alcoholism (acute or chronic).....									1			1
Alcoholism acute.....	2		1					1			1	
Alcoholic psychosis.....									1			
<i>Diseases of the nervous system and of the organs of special sense.</i>												
Pneumococcus meningitis.....			1			1						
Locomotor ataxia.....							1					
Other diseases of the spinal cord.....									1			
Softening of the brain.....			1									
Other forms of mental alienation.....	1		1				1	4	6			
Dementia precox.....								1				
Epilepsy.....							1		1			
Hysteria.....								1				
Neuralgia.....	2											
Neuritis.....	3						2		2			
Other diseases of the nervous system.....												
Neurasthenia.....							1					
Diseases of the eyes and their annexa.....	2	3	14				3	4	4			
Follicular conjunctivitis.....												
Trachoma.....								1				
Diseases of the ears.....	3		1				10	3				



## THE HOSPITALS OF THE PANAMA CANAL, FOR THE MONTH OF 1914—Continued.

Colon Hospital.												Total.											
Employees.						Nonemployees.						Employees.						Nonemployees.					
Admis- sions.			Deaths.			Admis- sions.			Deaths.			Admis- sions.			Deaths.			Admis- sions.			Deaths.		
W.			W.			W.			W.			W.			W.			W.			W.		
Americans.	Europeans.	Black.	Americans.	Europeans.	Black.	Soldiers.	Others.	Black.	Soldiers.	Others.	Black.	Americans.	Europeans.	Black.	Americans.	Europeans.	Black.	Soldiers.	Others.	Black.	Soldiers.	Others.	Black.
																			1				
																			1				
																			1				
		1											2					1					
		1											1										
											1												
																		1	1				
							3					2	1					4	1		1		1
																		1					
													1			1							
							1											1	1				
													1										
	1	1					1	2				1	1	2				1	5	8			
		1						6					1					1	1	6			
														1				1		1			
											2								1				
											3							2		2			
2		1										2		1									
																		1					
		1										2	3	15				3	4	4			
		2												2									
												3		1				1					
																	10	3					

TABLE VII.—TABLE SHOWING ADMISSIONS AND DEATHS IN OCTOBER,

Diseases.	Ancon Hospital.										
	Employees.						Nonemployees.				
	Admissions.			Deaths.			Admissions.			Deaths.	
	White.			White.			White.			White.	
	Americans.	Europeans.	Black.	Americans.	Europeans.	Black.	Soldiers.	Others.	Black.	Soldiers.	Others.
<i>Diseases of the circulatory system.</i>											
Pericarditis.....			1								
Acute endocarditis.....								1			
Organic diseases of the heart.....			2			1	1	1			
Arteriosclerosis.....								1			
Diseases of the veins (varices, hemorrhoids, phlebitis, etc.).....	1		2				1	1			
Hemorrhoids.....	1						1	1	2		
Varicocele.....	3	1					1	1			
Phlebitis.....	1						1	1			
Diseases of the lymphatic system (lymphangitis, etc.).....							1				
Lymphadenitis (nonvenereal).....	2	1	3				4		1		
<i>Diseases of the respiratory system.</i>											
Diseases of the nasal fossæ.....			1				1				
Adenoid vegetations.....								1			
Laryngitis.....			1								
Diseases of the thyroid body.....											
Acute bronchitis.....	7	7	3				1		1		
Chronic bronchitis.....	1										
Lobar pneumonia.....			4			4			1		1
Pleurisy.....			2						2		
Empyema.....			1								
Asthma.....											
<i>Diseases of the digestive system.</i>											
Diseases of the mouth and annexa.....	1										
Diseases of the teeth and gums.....			2				5				
Stomatitis.....			1					1			
Diseases of the pharynx.....							1	1			
Pharyngitis.....		1	2				1				
Follicular tonsillitis.....	3		1				10	9	1		
Ulcer of the stomach.....								1	1		1
Gastrectasis.....								1			
Chronic gastritis.....	1										
Acute indigestion.....								2			







TABLE VII.—TABLE SHOWING ADMISSIONS AND DEATHS IN  
OCTOBER,

Diseases.	Ancon Hospital.											
	Employees.						Nonemployees.					
	Admissions.			Deaths.			Admissions.			Deaths.		
	White.			White.			White.			White.		
	Americans.	Europeans.	Black.	Americans.	Europeans.	Black.	Soldiers.	Others.	Black.	Soldiers.	Others.	Black.
<i>Nonvenereal diseases of the genito-urinary system and annexa—Continued.</i>												
Uterine hemorrhage (non-puerperal).....								2				
Uterine tumor (noncancerous).....								1				
Other diseases of the uterus.....								4				
Metritis.....									1			
Salpingitis and other diseases of the female genital organs.....			1						5			
Nonpuerperal diseases of the breast (cancer excepted).....									2			
Benign tumor of breast.....								1				
<i>The puerperal state.</i>												
Normal labor.....								6	1			
Hyperemesis gravidarum.....								1				
Abortion.....								1				
Other accidents of labor.....								4	1			1
Puerperal albuminuria and convulsions.....									1			
Following childbirth (not otherwise defined).....								1				
<i>Diseases of the skin and of the cellular tissue.</i>												
Furuncle.....	2							1				
Carbuncle.....								1				
Acute abscess.....	2		8					1	3	2		
Phlegmon and cellulitis.....	2		1									
Dhobie itch.....	1							1				
Ulcer of the skin.....			5						2			
Ulcerating granuloma of the pudenda.....			1									
Impetigo contagiosa.....									1			
Ingrowing nail.....								1				
Other diseases of the skin and annexa.....	1	1	3					1	1	4		
<i>Diseases of the bones and of the organs of locomotion.</i>												
Diseases of the bones (tuberculosis excepted).....		1	1						1			
Ankylosis.....								1				
Arthritis.....		1										
Amputations.....												
Other diseases of the organs of locomotion.....	3		3					1		1		

THE HOSPITALS OF THE PANAMA CANAL FOR THE MONTH OF  
1914—Continued.

Colon Hospital.												Total.											
Employees.						Nonemployees.						Employees.						Nonemployees.					
Admis- sions.			Deaths.			Admis- sions.			Deaths.			Admis- sions.			Deaths.			Admis- sions.			Deaths.		
W.			W.			W.			W.			W.			W.			W.			W.		
Americans.	Europeans.	Black.	Americans.	Europeans.	Black.	Soldiers.	Others.	Black.	Soldiers.	Others.	Black.	Americans.	Europeans.	Black.	Americans.	Europeans.	Black.	Soldiers.	Others.	Black.	Soldiers.	Others.	Black.
		1											1					2					
							1	1										1					
																		5	1				
																		1					
													1						5				
																			2				
																		1					
							4	3										10	4				
																		1					
																		1					
																		4	1			1	
																			1				
																		1					
												2						1					
												1						1					
							1	1				2	10					1	4	3			
1		2						1				3	1					1		1			
													5							2			
													1										
												1	1	3				1	1	4			
													1	1									
													1	2				1					
		2					1							4				1					
		4					1											1					
												3		4				1		1			



TABLE VII.—TABLE SHOWING ADMISSIONS AND DEATHS IN  
OCTOBER,

Diseases.	Ancon Hospital.										
	Employees.						Nonemployees.				
	Admissions.			Deaths.			Admissions.			Deaths.	
	White.			White.			White.			White.	
	Americans.	Europeans.	Black.	Americans.	Europeans.	Black.	Soldiers.	Others.	Black.	Soldiers.	Others.
<i>Malformations.</i>											
Congenital malformations (stillbirth not included).....							1				
<i>Diseases of early infancy.</i>											
Newborn child.....								7	3		
Premature birth.....									1		1
Malnutrition.....								2	1		
Other causes peculiar to early infancy (including various consequences of labor).....								1			
<i>Affections produced by external causes.</i>											
Poisoning by food.....											
Other acute poisonings.....											
Burns (conflagration excepted).....	2		2								
Traumatism by firearms.....			1								
Traumatism by cutting or piercing instruments.....	2		12					2			
Traumatism by fall.....	2		9					1	1		
Traumatism in mines and quarries.....			13								
Traumatism by machines.....	1		7								
Traumatism by other crushings (vehicles, railroads, landslides, etc.).....			1					1			
Railroad traumatism.....			7								
Dynamite traumatism.....			2								
Traumatism by landslides.....			2								
Electricity (lightning excepted).....	1										
Homicide by other means.....									1		1
Fractures (cause not specified).....	2	2					3	1	2		
Sprains.....	3		3				2	1			
Other external violence.....	14	8	60				5		8		
<i>Ill-defined diseases.</i>											
Infections of undetermined origin.....	1		1					2	1		
No disease.....	2		1				1	32	5		
Total.....	139	61	419			11	128	164	129		14

THE HOSPITALS OF THE PANAMA CANAL FOR THE MONTH OF  
1914—Continued.

[illegible]

TABLE VIII.—CONSOLIDATED HOSPITAL REPORT.

[A=American; F=foreign; B=black.]

Hospitals.	Remaining Oct. 1.			Admitted.			Died.		
	A. <sup>1</sup>	F.	B.	A.	F.	B.	A.	F.	B.
<i>Ancon Hospital.</i>									
Panama Canal employees.....	39	30	245	116	50	355	.....	.....	8
Panama Railroad employees.....	7	4	53	22	11	63	.....	.....	3
Panama pay patients.....	.....	.....	1	.....	.....	1	.....	.....	.....
Other pay patients.....	84	18	23	206	65	74	3	.....	6
Charity patients.....	9	2	28	9	6	40	.....	.....	6
Total.....	139	54	350	353	132	533	3	.....	23
<i>Insane department.</i>									
Panama Canal employees.....	.....	5	14	1	.....	.....	.....	.....	.....
Panama Railroad employees.....	.....	.....	8	.....	.....	1	.....	.....	.....
Panama pay patients.....	.....	11	165	.....	1	11	.....	.....	2
Other pay patients.....	3	.....	3	2	2	1	.....	.....	.....
Charity patients.....	5	4	61	1	.....	2	.....	.....	.....
Total.....	8	20	251	4	3	15	.....	.....	2
Grand total.....	147	74	601	357	135	548	3	.....	25
<i>Corozal Farm.</i>									
Panama Canal employees.....	.....	8	48	.....	.....	7	.....	.....	.....
<i>Chronic ward.</i>									
Charity patients.....	.....	.....	25	.....	.....	8	.....	.....	.....
<i>Colon Hospital.</i>									
Panama Canal employees.....	2	1	17	12	13	53	.....	1	1
Panama Railroad employees.....	3	.....	3	5	2	30	.....	.....	1
Panama pay patients.....	.....	.....	1	2	1	10	.....	.....	2
Other pay patients.....	2	1	.....	15	11	5	.....	.....	.....
Charity patients.....	1	1	.....	5	2	13	.....	.....	1
Total.....	8	3	21	39	29	111	.....	1	5
<i>Palo Seco Leper Asylum.</i>									
Panama pay patients.....	.....	2	31	.....	.....	.....	.....	.....	1
Charity patients.....	.....	2	16	.....	.....	.....	.....	.....	.....
Total.....	.....	4	47	.....	.....	.....	.....	.....	1
<i>Grand total.</i>									
Panama Canal employees.....	41	44	324	129	63	415	.....	1	9
Panama Railroad employees.....	10	4	64	27	13	94	.....	.....	4
Panama pay patients.....	.....	13	198	2	2	22	.....	.....	5
Other pay patients.....	89	19	26	223	78	80	3	.....	6
Charity patients.....	15	9	130	15	8	63	.....	.....	7
Total.....	155	89	742	396	164	674	3	1	31

<sup>1</sup> White.

TABLE VIII.—CONSOLIDATED HOSPITAL REPORT.

[A=American; F=foreign; B=black.]

Discharged.			Transferred.			Remaining Oct. 31.			Average number constantly sick.			
									White.		Black.	Total.
A.	F.	B.	A.	F.	B.	A.	F.	B.	Ameri- can.	For- eign.		
114	48	389	1	2	1	40	30	202	39.39	29.81	211.35	280.55
18	6	72	.....	.....	4	11	9	37	8.81	5.39	38.00	52.20
					2						.81	.81
199	62	57	2	.....	1	86	21	33	86.84	22.74	27.29	136.87
12	4	27	1	.....	2	5	4	33	6.51	2.26	32.48	41.25
343	120	545	4	2	10	142	64	305	141.55	60.20	309.93	511.68
.....		1	.....	1	2	1	4	11	.03	4.29	12.39	16.71
								9			8.68	8.68
		1	.....		5		12	168		11.39	165.58	176.97
1			.....			4	2	4	3.52	.77	3.80	8.09
			.....		3	6	4	60	5.42	4.00	60.29	69.71
1	.....	2	.....	1	10	11	22	252	8.97	20.45	250.74	280.16
344	120	547	4	3	20	153	86	557	150.52	80.65	560.67	791.84
.....	1	3	.....				7	52	.....	7.68	49.68	57.36
		6	.....					27	.....		28.16	28.16
11	10	42	.....	3	16	3	.....	11	5.38	2.74	14.03	22.15
7	1	20	.....		7	1	1	5	1.16	.77	6.12	8.05
	1	4	2		5				.06	.03	.67	.76
11	8	3	2	2	.....	4	2	2	3.12	2.54	2.19	7.85
3	2	11	1	1	1	2	.....		.93	.35	1.35	2.63
32	22	80	5	6	29	10	3	18	10.65	6.43	24.36	41.44
.....			.....				2	30	.....	2.00	30.66	32.66
			.....				2	16	.....	2.00	16.00	18.00
			.....				4	46	.....	4.00	46.66	50.66
125	59	435	1	6	19	44	41	276	44.80	44.52	287.45	376.77
25	7	92	.....		11	12	10	51	9.97	6.16	52.80	68.93
	1	5	2		12	.....	14	188	.06	13.42	197.72	211.20
211	70	60	4	2	1	94	25	39	93.48	26.05	33.28	152.81
15	6	44	2	1	6	13	10	136	12.86	8.61	138.28	153.75
376	143	636	9	9	49	163	100	700	161.17	98.76	703.53	969.46

Number of employees remaining in hospitals:

White..... 107

Colored..... 327

Total..... 434

TABLE IX.—CONSOLIDATED DISPENSARY REPORT.

Stations.	Employees treated in quarters.														
	Re-main-ing Oct. 1.		Ad-mitted.		Died.		Dis-charged.		Trans-ferred.		Re-main-ing Oct. 1.		Days lost.		
	W.	C.	W.	C.	W.	C.	W.	C.	W.	C.	W.	C.	W.	C.	Total.
Naos Island.....	.....	1	.....	1	.....	.....	.....	1	.....	1	.....	.....	.....	3	3
Ancon.....	5	1	67	4	.....	.....	66	4	3	1	3	.....	178	19	197
Balboa.....	1	.....	44	16	.....	.....	34	13	9	2	2	1	115	21	136
Coro.al.....	2	.....	78	10	.....	.....	73	8	7	2	.....	.....	136	23	159
Pedro Miguel..	1	.....	7	.....	.....	.....	8	.....	.....	.....	.....	.....	14	.....	14
Paraiso.....	.....	.....	11	.....	.....	.....	6	.....	3	.....	2	.....	25	.....	25
Culebra.....	4	2	19	15	.....	.....	23	15	.....	.....	2	.....	51	56	107
Gamboa.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Gatun.....	1	1	11	14	.....	.....	10	14	2	.....	1	33	82	.....	115
Colon.....	6	5	69	70	.....	.....	72	59	.....	1	3	15	149	363	512
Margarita Point.....	.....	.....	.....	2	.....	.....	.....	1	.....	1	.....	.....	.....	2	2
Total....	20	10	306	132	.....	.....	232	115	24	8	10	19	701	563	1,270

Stations.	All cases treated but not excused.								
	Employees.			Nonemployees.			Total.		
	W.	C.	Total.	W.	C.	Total.	W.	C.	Total.
Naos Island..	141	1,150	1,291	1	5	6	142	1,155	1,297
Ancon.....	2,038	2,681	4,719	1,436	1,674	3,110	3,534	4,375	7,909
Balboa.....	3,639	3,953	7,592	242	214	456	3,881	4,173	8,054
Corozal.....	2,013	1,663	3,676	1,002	163	1,171	3,015	1,832	4,847
Pedro Miguel.	327	888	1,215	5	5	141	922	1,023	1,951
Paraiso.....	751	1,439	2,190	453	391	844	1,204	1,830	3,034
Culebra.....	544	913	1,457	499	499	998	1,043	1,412	2,455
Gamboa.....	56	170	226	45	321	366	101	491	592
Gatun.....	742	1,375	2,117	747	501	1,248	1,489	1,876	3,365
Colon.....	669	1,330	1,999	410	308	718	1,079	1,638	2,717
Margarita Point.....	178	292	470	...	...	...	178	232	470
Total..	11,158	15,860	27,018	5,430	4,243	9,673	16,588	20,103	36,691

## CONSOLIDATED ADMISSION REPORT.

	White.	Colored.	Total.
Total admissions to hospitals, excluding Corozal Farm and chronic ward.....	560	659	1,219
Total admissions of employees to quarters.....	306	132	438
Total.....	866	791	1,657
Less number of patients transferred between hospitals and from quarters to hospitals whose admissions are duplicated in above figures.....	42	57	99
Net admissions to hospitals and quarters....	824	734	1,558
Net admissions of employees to hospitals and quarters.....	507	596	1,102
Annual average per thousand of admissions of employees to hospitals and quarters.....	947.37	223.54	344.23

## CONTAGIOUS AND INFECTIOUS DISEASES REPORTED.

Diseases reported by health officers and district physicians.	Health office, Panama.	Health office, Colon.	Canal Zone.	Total.
Measles.....		17	2	19
Typhoid fever.....	2	1		3
Annual average per 1,000.....	0.40	0.41		
Mumps.....	3	5	4	12
Diphtheria (croup).....	3	1		4
<i>Diseases reported only by health officers.</i>				
Beriberi.....	2			2
<i>Diseases reported only by district physicians.</i>				
Malarial fever.....			249	249
Tetanus.....			1	1
Tuberculosis (of any organ).....			2	2
Infectious diseases of the eye.....			1	1
Erysipelas.....			1	1
Whooping cough.....			15	15
Dysentery.....			6	6

TABLE X.—AVERAGE NUMBER OF EMPLOYEES CONSTANTLY SICK IN HOSPITALS AND QUARTERS.

	White.	Colored.	Total.
<b>Hospitals:</b>			
Ancon Hospital.....	87.72	270.42	358.14
Colon Hospital.....	10.05	20.15	30.20
Total.....	97.77	290.57	388.34
<b>Quarters:</b>			
Naos Island.....		.10	.10
Ancon.....	5.74	.61	6.35
Balboa.....	3.71	.68	4.39
Corozal.....	4.38	.74	5.12
Pedro Miguel.....	.45		.45
Paraiso.....	.81		.81
Culebra.....	1.64	1.81	3.45
Gatun.....	1.06	2.65	3.71
Colon.....	4.50	11.71	16.51
Margarita Point.....		.05	.05
Total.....	22.59	19.36	40.95
	Hospitals.	Quarters.	Total.
<b>Average number of employees constantly sick:</b>			
White.....	97.77	22.59	120.36
Colored.....	290.57	18.36	308.93
Total.....	388.34	40.95	429.29
<b>Average number of employees constantly sick per 1,000:</b>			
White.....	15.22	3.52	18.74
Colored.....	9.08	.57	9.65
Total.....	10.11	1.07	11.18



TABLE XI.—AVERAGE LENGTH OF STAY IN HOSPITALS OR QUARTERS FOR EACH ADMISSION OF SICK EMPLOYEES.

	White.	Colored.	Total.
Hospitals:			
Ancon Hospital.....	14.45	25.14	22.11
Colon Hospital.....	6.85	9.18	8.54
Quarters:			
Naos Island.....		2.00	2.00
Ancon.....	2.77	8.20	3.14
Balboa.....	1.77	1.40	1.67
Corozal.....	1.75	2.30	1.81
Pedro Miguel.....	1.87		1.87
Paraiso.....	1.33		1.33
Culebra.....	3.65	4.47	3.97
Gatun.....	2.83	5.93	4.50
Colon.....	3.87	6.37	5.01
Margarita Point.....		1.00	1.00

TABLE XII.—FINANCIAL STATEMENT.

	August, 1914.	July, 1914.	August, 1913.
Administration:			
Chief health office.....	\$2,128.10	\$2,046.81	\$4,882.88
Hospital division:			
Ancon Hospital.....	37,863.74	39,022.14	43,676.41
Cor. zal Farm.....	1,621.72	1,535.71	624.27
Colon Hospital.....	2,539.83	2,438.84	15,762.49
Chronic ward.....	290.47	240.99	
Taboga Sanitarium.....			2,431.37
Palo Seco Leper Asylum.....	1,393.16	1,332.60	1,160.40
Santo Tomas Hospital.....	901.00	950.00	1,194.00
Medical storehouse.....	644.56	657.07	727.37
Construction and repairs to buildings.....	980.76	1,589.36	1,566.21
Total.....	46,235.27	47,766.71	67,142.52
Dispensaries:			
Naos Island.....	107.86	245.54	226.33
Balboa.....	1,001.87	935.56	937.57
Tivoli.....			675.37
Corozal.....	552.42	613.22	783.83
Miraflores.....			433.65
Pedro Miguel.....	397.51	399.69	489.71
Paraiso.....	498.12	495.46	438.47
Culebra.....	513.05	676.21	892.13
Empire.....	470.01	470.83	1,149.24
Las Cascadas.....			448.07
Gamboa.....	123.68	116.16	
Bas Obispo.....			593.07
Gorgona.....			149.39
Gatun.....	511.61	483.87	1,437.05
Cristobal.....	560.53	917.32	1,051.91
Margarita Point.....	112.76	111.04	112.31
Toro Point.....			484.57
Porto Bello.....			413.46
Total.....	4,849.42	5,465.90	10,719.13
Sanitary division:			
General inspector.....	120.00	225.00	1,000.00
Health office, Panama.....	3,076.48	2,470.36	2,780.62
Street cleaning.....	4,644.03	4,889.50	833.33
Health office, Colon.....	2,150.01	1,627.14	2,013.49
Street cleaning.....	2,003.17	1,875.29	1,640.10



TABLE XII.—FINANCIAL STATEMENT—Continued.

	August, 1914.	July, 1914.	August, 1913.
Sanitary division—Continued.			
Zone sanitation—			
Ancon.....	\$1,667.58	\$1,825.25	\$2,110.09
Balboa.....	1,377.37	2,350.97	1,412.42
Corozal.....	1,444.56	1,526.70	1,344.01
Miraflores.....			1,742.05
Pedro Miguel.....	993.29	1,109.32	1,818.40
Paraiso.....	1,142.86	1,683.18	1,450.99
Culebra.....	1,043.52	1,076.99	2,149.33
Empire.....	1,352.59	1,554.68	2,987.40
Las Cascadas.....			1,439.62
Bas Obispo.....			705.06
Matachin.....			273.07
Gorgona.....			576.07
Frijoles.....	66.43	65.00	241.98
Gatun.....	2,103.09	2,615.19	3,789.13
Cristobal and Mount Hope.....	2,758.98	3,203.96	2,840.86
Toro Point.....	634.27	369.27	74.17
Porto Bello.....			397.66
Total.....	26,584.23	28,470.80	33,619.85
Quarantine division.....	4,578.33	4,669.23	4,165.59
Recapitulation.			
Chief health office.....	2,178.10	2,046.81	4,882.88
Hospital division.....	46,235.27	47,766.71	67,142.52
Dispensaries.....	4,849.42	5,465.90	10,719.13
Sanitary division.....	26,584.23	28,470.80	33,619.85
Quarantine division.....	4,578.33	4,669.23	4,165.59
Grand total.....	84,375.35	88,419.45	120,529.97

NOTE.—August, 1914, last available figures.

TABLE XIII.—ANCON HOSPITAL.  
REPORT OF NATIONALITY OF PATIENTS TREATED.

Class.	Total number treated.	Americans.		Other nations.	
		(W.)	(B.)	(W.)	(B.)
Hospital:					
Panama Canal employees.....	835	155		80	600
Panama R. R. employees.....	160	29		15	116
Panama pay patients.....	2				2
Other pay patients.....	470	290		83	97
Charity patients.....	94	18		8	68
Total.....	1,561	492		186	883
Asylum:					
Panama Canal employees.....	20	1		5	14
Panama R. R. employees.....	9				9
Panama pay patients.....	188			12	176
Other pay patients.....	11	5		2	4
Charity patients.....	73	6		4	63
Total.....	301	12		23	266
Grand total.....	1,862	504		209	1,149
Chronics.....	33				33

## REPORT OF DAYS LOST IN HOSPITAL.

Class.	Total.	Ameri- can.	For- eign, white.	Black.
<b>Hospital:</b>				
Panama Canal employees.....	8,697	1,221	924	6,552
Panama R. R. employees.....	1,618	273	167	1,178
Panama pay patients.....	25			25
Other pay patients.....	4,243	2,692	705	846
Charity patients.....	1,279	202	70	1,007
Total.....	15,862	4,388	1,866	9,608
<b>Asylum:</b>				
Panama Canal employees.....	518	1	133	384
Panama R. R. employees.....	269			269
Panama pay patients.....	5,486		353	5,133
Other pay patients.....	251	109	24	118
Charity patients.....	2,161	168	124	1,869
Total.....	8,685	278	634	7,773
Grand total.....	24,547	4,666	2,500	17,381
Chronics.....	873			873

Average cost of subsistence per patient per day, \$0.2617.

## WARD LABORATORY REPORT.

Blood examinations, total number.....	831
Estivo-autumnal.....	128
Tertian.....	27
Differential counts.....	58
Hemoglobin estimations.....	57
Leucocyte counts.....	128
Red blood counts.....	2
Stool examinations, total number.....	496
Ameba.....	3
Ascaris lumbricoides.....	14
Ciliated monads.....	9
Entameba (hystolitica and tetragena).....	2
Gualac tests.....	11
Pus and blood.....	85
Strongloides.....	18
Tricocephalus dispar.....	31
Uncinaria (ova).....	57
Urine examinations, total number.....	1,474
Albumen.....	354
Bile.....	9
Casts.....	269
Ciliated monads.....	5
Epithelia.....	86
Gualac tests.....	5
Indicon.....	67
Pus and blood.....	404
Sugar (pos. 0, neg. 12).....	12
Trichomonas vaginalis.....	2
Sputum examinations, total number.....	104
Positive for tubercle bacilli.....	9
Smear examinations, total number.....	23
Urethral.....	19
Vaginal.....	3
Eye (positive).....	1

## REPORT OF SURGICAL OPERATIONS.

	Number.	Died.
Amputations:		
3. Forearm .....	1	
7. Leg .....	1	
9. Multiple digits .....	2	
12. Leg, double .....	4	
Operations on bones:		
14. Craniectomy, decompressive .....	1	1
17. Osteotomy .....	1	
25. Operative treatment, fractures, simple .....	7	
26. Operative treatment, fractures, compound .....	3	
Adenectomy:		
27. Cervical .....	2	
29. Inguinal, single .....	20	
30. Inguinal, double .....	5	
Herniotomy:		
32. Inguinal, single .....	7	
33. Inguinal, double .....	3	
34. Femoral .....	1	
Genito-urinary tract:		
42. Ureterotomy .....	1	
44. Urethrotomy, internal .....	2	
45. Urethrotomy, external .....	1	
47. Varicocele, radical cure .....	7	
48. Hydrocele, single, radical cure .....	2	
51. Epididymotomy .....	8	
53. Amputation of scrotum .....	1	
56. Curetage uteri .....	4	
Obstetrical:		
65. Low forceps .....	2	
67. Perineorrhaphy .....	2	
Thorax:		
72. Excision of breast .....	1	
73. Excision of breast and axilla .....	1	
Rectum:		
76. Hemorrhoids, radical cure .....	5	
General:		
83. Varicose veins, excision of .....	1	
84. Tenorrhaphy .....	2	
86. Excision of surface neoplasms .....	3	
89. Extensive injuries to soft parts, operation for .....	1	
90. Plastic operation for congenital defect .....	1	
92. Plastic operation for effects of disease .....	3	
93. Skin graft .....	1	
Laparotomy:		
97. Exploratory .....	1	
101. Enterectomy .....	1	1
103. Appendectomy .....	12	
104. Appendectomy with local peritonitis .....	2	
115. Abscess of liver, laparo-hepatotomy for .....	1	1
118. Pan-hysterectomy .....	1	
119. Supravaginal hysterectomy .....	5	
127. Suspensio-uteri .....	1	
128. Plastic operation for chronic pelvis peritonitis .....	1	
131. Hematoperitoneum. ruptured uterus .....	1	1
133. Rupture of spleen .....	1	
137. Various minor operations .....	112	1
Total .....	236	5

## REPORT OF OPERATIONS, EYE AND EAR DEPARTMENT.

	Number.
Adenoidectomy.....	5
Tonsillectomy.....	16
Iridectomy.....	4
Pterygium excision.....	1
Pterygium transplantation.....	3
Mastoidectomy, radical.....	1
Submucous resection (nasal septum).....	2
Cataract extraction.....	1
Turbineotomy.....	1
Sinusotomy, frontal, radical.....	1
Resection external rectus.....	1
	36
Various minor operations:	
Eye.....	16
Ear.....	6
Nose and throat.....	6
	28
Total.....	64
Total number of cases treated.....	978
Refractions.....	275

## OUT-PATIENT DEPARTMENT.

Clinic.	Total visits.	New cases.	Pay cases.	Prescriptions.
Medical.....	401	316	69	443
Surgical.....	235	167	19	93
Eye and ear.....	978	235	31	429
Total.....	1,614	778	119	965

## REPORT OF BOARD OF HEALTH LABORATORY.

Bacteriological examinations of—	Chemical analysis of—
Blood culture..... 18	Hospital dairy milk..... 1
Diphtheria cultures..... 13	Sample of milk received from
Urine cultures..... 269	C. H. O..... 1
Stool cultures..... 190	Milk from private dairies supplying cities of Panama and
Pus and exudates..... 7	Colon..... 15
Sputum..... 1	Mother's milk..... 6
Cultures from autopsies..... 3	Milk for supply department.... 2
Knee fluid..... 2	Stools..... 1
Lymph node..... 1	Stomach contents..... 1
Fluid from pleural cavity..... 2	Limestone, Corozal Farm..... 1
Spinal fluid..... 3	Cane sirup..... 1
Milk..... 1	Surgical tissues and neoplasms reported..... 13
Antityphoid vaccinations..... 1	Autopsies performed..... 24
Smallpox vaccinations..... 14	Bodies embalmed..... 5
Wassermann reactions..... 247	Animals examined or under observation..... 3
Agglutination reactions..... 2	Leper suspects examined..... 3
Autogenic vaccines prepared... 2	Rats examined..... 840
Preparations of salvarsanized serum for intraspinal treatment..... 3	Medical legal investigation..... 1
Preliminary work on preparation of smallpox vaccine.....	Examination of beans and rice for superintendent of hospital..... 1
Pathological tissues prepared, paraffin..... 275	Examination of flour and cornmeal for superintendent of hospital.... 1
Pathological tissues prepared, frozen..... 17	Examination of rice (Arkansas) for superintendent of hospital..... 1
Microscopic examinations for chief quartermaster officer.... 17	

## REPORT OF OPERATIONS OF THE HOSPITAL FARM, COROZAL.

## Expenditures:

Supervision.....	\$200.00
Labor.....	649.44
Subsistence of labor.....	397.83
Quartermaster team service.....	29.43
Electric lights.....	3.90
Ice.....	.90
Material and supplies.....	16.44
	<hr/> \$1,297.94

## Receipts:

Transfer and services rendered.....	44.06
Produce supplied local buyer, commissary department.....	312.52
5,900 heads lettuce.	
114½ dozen eggs.	
29 dozen roses.	
255 bunches radishes.	
242 bunches spinach.	
290 pounds sweet peppers.	
1,459 pounds papayas.	
300 pounds papayas, green.	
6,100 okras.	
1,100 limes.	
Produce supplied Ancon Hospital—	
7,200 okras.....	33.58
800 limes.....	3.20
20 pounds lettuce.....	1.80
15 pounds sweet peppers.....	.45
400 bunches radishes.....	15.03
30 guinea pigs.....	15.00
Produce sold to private parties—	
25 bunches bananas.....	6.32
6 dozen eggs.....	2.40
12½ dozen roses.....	6.25
Ferns and plants.....	9.75
Burial permit.....	2.00
One coffin.....	1.20
Grass.....	62.00
Pasturage.....	30.00
	<hr/> 545.56

Net running expense.....	\$752.38
Number of days' treatment furnished.....	1,778
Net cost per patient per day.....	\$0.42316

*Work performed.*—Grading on road and cow barn, cleaning pasture, fencing hog lots, repairing pasture fence, and cultivating garden and nursery.

## ANCON HOSPITAL INSANE ASYLUM—STATEMENT OF COMMITMENTS, DEATHS AND DISCHARGES.

*Commitments.*

	Male.	Female.	Total.
From Canal Zone on first commitment.....	9	1	10
From Panama Government on first commitment..	19	3	12
Total.....	18	4	22

<sup>1</sup> 2 returned from hospital.

*Discharges.*

Nationality.	Well.		Improved.		Un-improved.		Total.
	Male.	Fe-male.	Male.	Fe-male.	Male.	Fe-male.	
Trinidad.....					1	1	1
St. Lucia.....					1	2	2
Grenada.....					1	2	2
Portugal.....					1	1	1
Barbados.....	1				2	1	2
United States.....	1						1
St. Vincent.....			1	1	1	2	3
Guadeloupe.....					1	1	1
Panama.....		1					1
Total.....	2	1	1		10		14

<sup>1</sup> Deported.<sup>2</sup> Transferred to hospital.*Deaths.*

Physical diagnosis.	Mental diagnosis.			
	Infective-exhaustive psychosis.		Alcoholic psychosis.	
	Male.	Female.	Male.	Female.
Disseminated tuberculosis.....		1		
Alcoholism.....			1	

TABLE XIV.—COLON HOSPITAL.

## NATIONALITY OF PATIENTS.

	American, white.	Foreign, white.	Black.	Total.
Panama Canal employees.....	14	14	70	98
Panama R. R. employees.....	8	2	33	43
Panama pay.....	2	1	11	14
Other pay.....	17	12	5	34
Charity cases.....	6	3	13	22
Total.....	47	32	132	211

Cost of subsistence per patient per day, 29 cents.



## LABORATORY REPORT.

Blood examinations.....	116
Estivo-autumnal.....	37
Tertian.....	13
White blood counts.....	4
Differential counts.....	4
Hemoglobin.....	2
Stool examinations.....	14
Bothriocephalus.....	1
Negative ameba.....	14
Urine examinations.....	175
Albumin.....	63
Casts.....	34
Sputum examinations.....	8
Positive for tubercle bacilli.....	3

## SURGICAL OPERATIONS.

Amputations:	
9½. Digits, single.....	8
Operations on bones:	
17. Osteotomy.....	1
Adenectomy:	
27. Cervical.....	1
Herniotomy:	
32. Inguinal, single.....	4
33. Inguinal, double.....	1
Genito-urinary tract:	
45. Urethrotomy, external.....	1
47. Varicocele, radical cure.....	1
48. Hydrocele, single, radical cure.....	2
56. Curetate, uteri.....	2
58. Trachelorrhaphy.....	1
Obstetrical:	
67½. Breech.....	1
Thorax:	
68. Thoracotomy.....	1
Rectum:	
76. Hemorrhoids, radical cure.....	4
General:	
80. Thyroidectomy.....	1
84. Tenorrhaphy.....	1
Laparotomy:	
97. Exploratory.....	1
103. Appendectomy.....	2
117. Splenectomy (died, 1).....	1
136. Major operations, various.....	1
137. Minor operations, various.....	12

TABLE XV.—PALO SECO LEPER ASYLUM.

## NATIONALITY OF PATIENTS.

Class.	Number treated.		Americans.		Other nations.	
	White.	Black.	White.	Black.	White.	Black.
Panama Canal employees.....						
Panama R. R. employees.....						
Pay cases.....	2	31			2	31
Charity cases.....	2	16			2	16
	4	47			4	47

Cost of subsistence per patient per day, 28 cents.

TABLE XVI.—SANTO TOMAS HOSPITAL.

Class.	Remain- ing Oct. 1.	Ad- mitted.	Dis- charged.	Died.	Remain- ing Oct. 31.
Pay cases.....	48	105	107	3	43
Charity cases.....	403	1,020	905	92	431
Total.....	456	1,125	1,012	95	474

Average number of patients constantly sick.....	452
Total number of days' treatment.....	14,019
Average number of days' treatment per patient.....	8
Cost of subsistence per patient per day.....	\$0.235

## NATIONALITY.

Class.	Number treated.	Americans.		Other nations.	
		White.	Colored.	White.	Colored.
Pay cases.....	153	.....	.....	69	84
Charity cases.....	1,428	.....	.....	151	1,277
Total.....	1,581	.....	.....	220	1,361

## DISPENSARY REPORT.

Class.	White.	Colored.	Total.
Natives.....	41	361	402
Foreigners.....	15	520	535
Total.....	56	881	937

## DISEASES TREATED.

1. Typhoid fever.....	1
4. Malaria.....	180
6. Measles.....	1
9. Diphtheria and croup.....	2
10. Influenza.....	10
14. Dysentery.....	18
18. Erysipelas.....	1
190. Other epidemic diseases.....	2
20. Purulent infection and septicemia.....	12
26. Pellagra.....	7
27. Beriberi.....	8
28. Tuberculosis of the lungs.....	31
35. Disseminated tuberculosis.....	1
37. Syphilis.....	25
38A. Gonococcus infection.....	26
38B. Soft chancre.....	43
40. Cancer and other malignant tumors of the stomach and liver.....	1
42. Cancer and other malignant tumors of the female genital organs.....	2
43. Cancer and other malignant tumors of the breast.....	2
45. Cancer and other malignant tumors of other organs and of organs not specified.....	1
46. Other tumors (tumors of the female genital organs excepted).....	1
47. Acute articular rheumatism.....	18
54. Anemia, chlorosis.....	2
55. Other general diseases.....	1
56. Alcoholism (acute or chronic).....	11
63. Other diseases of the spinal cord.....	3

64. Cerebral hemorrhage, apoplexy.....	1
68. Other forms of mental alienation.....	3
69. Epilepsy.....	3
70. Convulsions (nonpuerperal) (5 years and over).....	1
73A. Hysteria.....	1
73. Neuralgia and neuritis.....	1
74. Other diseases of the nervous system.....	6
75. Diseases of the eyes and their annexa.....	5
76. Diseases of ears.....	1
78. Acute endocarditis.....	9
79. Organic diseases of the heart.....	14
81. Diseases of the arteries, atheroma, aneurysm, etc.....	1
83. Diseases of the veins (varices, hemorrhoids, phlebitis, etc.).....	3
84. Diseases of the lymphatic system (lymphangitis, etc.).....	5
85. Hemorrhage, other diseases of the circulatory system.....	2
86. Diseases of the nasal fossæ.....	3
87. Diseases of the larynx.....	2
90. Chronic bronchitis.....	28
91. Bronchopneumonia.....	4
92A. Pneumonia (unqualified).....	7
93A. Pleurisy.....	2
96. Asthma.....	1
99. Diseases of the mouth and annexa.....	11
100. Diseases of the pharynx.....	5
103. Other diseases of the stomach (cancer excepted).....	2
104. Diarrhea and enteritis (under 2 years).....	1
105. Diarrhea and enteritis (2 years and over).....	16
106. Ankylostomiasis.....	19
107. Intestinal parasites.....	1
108. Appendicitis and typhlitis.....	5
109. Hernia, intestinal obstructions.....	17
110A. Diseases of the anus.....	28
110B. Other diseases of the intestines.....	5
113. Cirrhosis of the liver.....	2
114. Biliary calculi.....	2
115. Other diseases of the liver.....	4
118. Other diseases of the digestive system (cancer and tuberculosis excepted).....	1
119. Acute nephritis.....	37
120. Bright's disease (chronic nephritis).....	2
124. Diseases of the bladder.....	1
125. Diseases of the urethra, urinary abscess, etc.....	13
126. Diseases of the prostate.....	2
127. Nonvenereal diseases of the male genital organs.....	16
128. Uterine hemorrhage (nonpuerperal).....	1
129. Uterine tumor (noncancerous).....	3
130. Other diseases of the uterus.....	7
130a. Netritis.....	4
131. Cysts and tumors of the ovary.....	1
132. Salpingitis and other diseases of the female genital organs.....	11
133. Nonpuerperal diseases of the breast (cancer excepted).....	1
134A. Normal labor.....	95
134B. Accidents of pregnancy.....	32
137. Puerperal septicæmia.....	2
138. Puerperal albuminuria and convulsions.....	1
143. Furuncle.....	4
144. Acute abscess.....	8
145B. Scabies.....	2
145T. Other diseases of the skin and annexa.....	22
146. Diseases of the bones (tuberculosis excepted).....	4
147. Diseases of the joints (tuberculosis and rheumatism excepted).....	4
150. Congenital malformations (stillbirth not included).....	1
151A. Newborn child.....	84
151B. Congenital debility, icterus, and sclerema.....	2
154. Senility.....	2
165. Other acute poisonings.....	3
167. Burns (conflagration excepted).....	7
170. Traumatism by firearms.....	4
171. Traumatism by cutting or piercing instruments.....	8
175. Traumatism by other crushings (vehicles, railroads, landslides, etc.).....	15
177. Starvation.....	1
185A. Fractures (causes not specified).....	13
189Ba. No disease.....	48
Total.....	1,093

## SURGICAL OPERATIONS.

	Number.	Died.
7. Amputations, leg.....	1	.....
24. Resection of ankle.....	1	.....
26. Wiring of fractures, compound.....	1	.....
29. Adenectomy, inguinal, single.....	4	.....
30. Adenectomy, inguinal, double.....	1	.....
32. Herniotomy, inguinal, single.....	12	.....
33. Herniotomy, inguinal, double.....	1	.....
40. Nephropexy.....	1	.....
43. Cystotomy.....	2	.....
44. Urethrotomy, internal.....	7	.....
45. Urethrotomy, external.....	5	.....
48. Hydrocele, single, radical cure.....	2	.....
50. Orchidectomy.....	2	.....
51. Epididymotomy.....	2	.....
52. Vasectomy.....	1	.....
56. Curetage uteri.....	3	.....
72. Excision of breast.....	1	.....
76. Hemorrhoids, radical cure.....	1	.....
77. Fistula in anus, excision of.....	1	.....
91. Plastic operations for severe injuries.....	1	1
92. Plastic operations for effects of disease.....	12	.....
93. Skin graft.....	2	.....
97. Laparotomy, exploratory.....	2	.....
99. Gastroenterostomy.....	1	1
103. Appendectomy.....	8	1
111. Cholecystotomy.....	5	.....
118. Panhysterectomy.....	3	.....
120. Hysteromyomectomy.....	3	.....
122. Salpingectomy, single.....	2	.....
124. Salpingo-oophorectomy.....	10	.....
127. Suspensio-uteri.....	4	.....
136. Major operations, various other.....	8	.....
137. Minor operations, various.....	20	.....
Total.....	130	3

TABLE XVII—SANITATION.

The following is a summary of sanitary work performed and material expended during the month of October, 1914, in the Canal Zone:

Work requests on quartermaster's department:	
Grass cutting.....	11
Screening.....	23
Miscellaneous.....	9
Work requests on engineering department.....	4
Notices served to abate nuisances.....	31
Inspections of closets.....	1,905
Inspections of restaurants.....	3
Inspections of stores.....	38
Inspections of shops.....	61
Garbage cans emptied.....	87,152
Closets disinfected.....	3,175
Houses disinfected.....	1
Rat traps used daily.....	1,864
Adult Anopheles destroyed in houses.....	4,047
Adult Culices destroyed in houses.....	9,500
Larvacide used.....	gallons.. 444
Crude oil used.....	do. 24,417
Rats destroyed.....	793

# SUMMARY OF ROUTINE WORK DONE BY THE HEALTH OFFICE, PANAMA.

## Mosquito, rat, and fly work:

Linear feet of ditches cleaned and maintained.....	50,601
Linear feet of new ditches dug.....	5,539
Number of cubic yards earth used in filling.....	0
Gallons larvacide used.....	692
Gallons crude oil used.....	160
Square yards pools oiled.....	94,690
Water containers treated.....	38,325
Mosquito-breeding places found.....	547
Fly-breeding places found.....	384
Flies trapped (13,000 per quart).....	quarts.. 213
Rats trapped.....	608

## Garbage collections:

Number of loads garbage removed to dump.....	4,766
Total number of cans garbage emptied.....	107,590

## Buildings:

### Work for month of October—

Number of buildings inspected.....	5,206
Number of plans for new buildings approved.....	23
Number of permits granted for repairs to old buildings.....	90
Total number of permits granted.....	113
Number of buildings condemned.....	61
Number of buildings demolished.....	30

### Work since Apr. 1—

Total number of buildings condemned.....	898
Total number of buildings demolished.....	186
Number of permits for new buildings.....	213
Number of permits for repairs to old buildings.....	821
Total number of permits issued.....	1,034
Permits for new buildings completed.....	150
Permits for repairs to old buildings completed.....	579
Total number of permits completed.....	729
Total number of permits completed, 729, or 70.50 per cent.	
Total number of permits outstanding, 305, or 29.50 per cent.	

## Street cleaning:

Average number of square yards cleaned daily.....	600,000
Average number of square yards streets sprinkled.....	90,000
Number of private properties cleaned during month.....	5
Number of notices served and nuisances abated.....	62

## Vaccinations:

Number of vaccinations during month.....	1,444
Total number of vaccinations since Apr. 1, 1914.....	10,923

# GENERAL WORK REPORT FOR COLON, CRISTOBAL, AND MOUNT HOPE.

## General sanitation, Colon:

Square yards street cleaned.....	4,207,704
Square yards alleys maintained.....	728,865
Loads of yard garbage.....	488
Private properties cleaned.....	88
Number of rats killed.....	150
Doses of quinine issued.....	9,391
Number of cans garbage (2,196 cubic yards).....	67,546
Linear yards ditches constructed (37 cubic yards).....	83
Linear yards ditches maintained.....	3,302
Number of cubic feet fumigated (4 buildings).....	74,610
Square yards vegetation removed.....	41,026

### Parkway and E Street maintained.

Square yards oiled.....	25,960
Number of receptacles treated.....	30,300
Number of mosquito-breeding places destroyed.....	106
Number of fly-breeding places destroyed.....	49
Number of buildings inspected.....	3,960
Gallons larvacide used.....	160
Gallons crude oil used.....	400
Live rats caught.....	11

## Building, Colon:

Number of plans approved.....	3
Number of permits to occupy issued.....	4
Number of permits to repair issued.....	70
Number of temporary permits to occupy issued.....	1

<b>Sewers, Colon:</b>	
Number of new connections made during month.....	4
Total number of connections made to date.....	1,163
Number of houses in which extensions were made.....	4
Number of outstanding permits.....	32
<b>Sanitation, Cristobal:</b>	
Square yards pools oiled.....	5,450
Number of receptacles treated.....	3,000
Number of mosquito-breeding places destroyed.....	13
Number of fly-breeding places destroyed.....	1
Number of buildings inspected.....	180
Gallons larvacide used.....	25
Gallons crude oil used.....	112
From Oct. 19 to 31 (taken over from quartermaster's department),	
Cristobal—	
Loads of yard garbage.....	45
Number of cans garbage (234 cubic yards).....	5,685
Square yards vegetation removed.....	13,520
<b>Sanitation, Mount Hope:</b>	
Square yards pools oiled.....	184,450
Number receptacles treated.....	14,650
Number of mosquito-breeding places destroyed.....	70
Number of rats killed.....	4
Linear yards ditches constructed (140 cubic yards).....	1,418
Linear yards ditches maintained.....	18,948
Number of mosquitoes killed in barracks (Anopheles).....	156
Number of mosquitoes killed in barracks (Culices).....	7,754
Number of mosquitoes killed in cars (Anopheles).....	846
Number of mosquitoes killed in cars (Culices).....	361
Gallons larvacide used.....	249
Gallons crude oil used.....	3,415
Mount Hope Cemetery maintained.....	
Number of burials made.....	54
From Oct. 19 to 31 (taken over from quartermaster's department),	
Mount Hope—	
Number of cans garbage (109½ cubic yards).....	1,375
Square yards vegetation removed.....	69,109

## TABLE XVIII.—QUARANTINE TRANSACTIONS.

### PORTS OF BALBOA AND PANAMA.

Number of vessels inspected and passed.....	57
Number of vessels inspected and held in quarantine.....	5
Total number of vessels inspected.....	62
Number of vessels fumigated on arrival.....	5
Number of vessels fumigated on departure.....	0
Total number of vessels fumigated.....	5
Number of crew examined.....	2,985
Number of passengers from foreign ports examined and landed:	
Cabin.....	274
Steerage.....	160
	434
Total number of persons examined.....	3,419
Number of persons vaccinated at ports of arrival because of compulsory vaccination law.....	3
Number of persons vaccinated at ports of departure or en route because of compulsory vaccination law.....	26
Total number of persons vaccinated.....	29
Number of persons held in quarantine at the detention house to complete period of incubation for fever or plague.....	36
Number of persons held in quarantine on board vessels to complete period of incubation of yellow fever or plague.....	705
Total number of persons held under observation.....	741



Number of persons embarked for foreign ports:		
(Cabin.....)	559	621
Steerage.....	103	103
		662
Number of persons arriving from coast towns in small launches and sailing craft.....		1,383
Number of persons sailing for coast towns in small launches and sailing craft.....		1,446
Number of bills of health issued.....		42
Total number of persons landed.....	1,817	
Total number of persons sailing.....	2,108	
Apparent decrease for the month.....		291

## PORTS OF COLON AND CRISTOBAL.

Number of vessels inspected and passed.....	112	
Number of vessels held in quarantine.....	2	
Total number of vessels inspected.....		114
Number of vessels fumigated on arrival.....		1
Number of vessels fumigated on departure.....		5
Number of crew inspected.....	6,706	
Number of passengers inspected.....	2,744	
Total number of persons inspected.....		9,450
Number of persons vaccinated in port of arrival.....	316	
Number of persons vaccinated in ports of departure or en route.....	249	
Total number of persons vaccinated.....		565
Number of persons detained in quarantine to complete period of incubation for yellow fever and plague.....	199	
Number of persons detained on vessels.....	244	
Total number of persons held under observation.....		443
Total number of persons landed from foreign ports:		
(Cabin.....)	1,338	
Steerage.....	525	
		1,863
Total number of persons embarked for foreign ports:		
Cabin.....	1,286	
Steerage.....	2,329	
		3,625
Number of persons in transit.....		607
Number of persons from coast towns inspected.....		274
Number of persons from coast towns not inspected.....		244
Number of persons leaving Colon for coast towns.....		216
Number of persons landed during month:		
For immigration report.....	2,094	
For Pacific ports.....	287	
		2,381
Number of bills of health issued.....		13
Number of bills of health void.....		99
Number of persons recommended for deportation.....		12
Total number of persons landed.....	2,381	
Less number for Pacific ports.....	287	
		2,094
Total number of persons sailing.....		3,841
Apparent decrease for month.....		1,747

## CONSOLIDATED REPORT—PORTS OF BALBOA-PANAMA AND COLON-CRISTOBAL.

Number of vessels inspected and passed.....	169	
Number of vessels held in quarantine.....	7	
Total number of vessels entered.....		176
Number of vessels fumigated on arrival.....	6	
Number of vessels fumigated on departure.....	5	
Total number of vessels fumigated.....		11

Number of crew examined.....	9,691	
Number of passengers examined.....	3,178	
Total number of persons examined.....		12,869
Number of persons vaccinated at ports of arrival because of compulsory vaccination law.....	319	
Number of persons vaccinated at ports of departure or en route because of compulsory vaccination law.....	275	
Total number of persons vaccinated.....		594
Number of persons held in quarantine at the detention houses to complete period of incubation of yellow fever and plague.....	235	
Number of persons held in quarantine on board vessels to complete period of incubation of yellow fever and plague.....	949	
Total number of persons held under observation.....		1,184
Total number of persons landed from foreign ports:		
Cabin.....	1,612	
Steerage.....	685	
		2,297
Total number of persons embarked for foreign ports:		
Cabin.....	1,855	
Steerage.....	2,432	
		4,287
Total number of persons arriving from coast towns on small launches and sailing craft.....	1,901	
Total number of persons sailing for coast towns on small launches and sailing craft.....	1,662	
Apparent increase for month from coast towns.....		239
Apparent decrease for month from foreign ports:		
Cabin (decrease).....	243	
Steerage (decrease).....	1,747	
		1,990
Number of immigrants recommended for deportation.....		12
Number of bills of health issued or viséed.....		154
Total number of persons landed.....	4,198	
Less number for Pacific ports.....	287	
		3,911
Total number of persons sailing.....		5,949
Total apparent decrease for month.....		2,038

## IMMIGRATION REPORT FOR COLON.

From—	Cabin.	Steerage.	Total.
Europe.....	75	27	102
United States.....	632	34	666
Jamaica and West Indies.....	92	255	347
Venezuela.....	10	11	21
Colombia.....	62	103	165
Cuba.....	34	30	64
Guatemala.....		5	5
Costa Rica.....	164	42	206
Bocas del Toro.....	78	196	274
Coast towns.....		244	244
Total.....	1,147	947	2,094
Men.....			1,134
Women.....			496
Children.....			220
Unclassified.....			244
Total.....			2,094

## QUARANTINE—BOCAS DEL TORO.

Number of vessels inspected and passed.....	28
Number of crew inspected and passed.....	1,178
Number of passengers inspected and passed.....	361
Number of passengers in transit inspected and passed.....	375
Number of persons held to complete period of incubation of yellow fever....	1
Number of persons held to complete period of incubation of plague.....	1

No quarantinable disease has appeared in this port, and the health conditions of the port and surrounding territory are good.

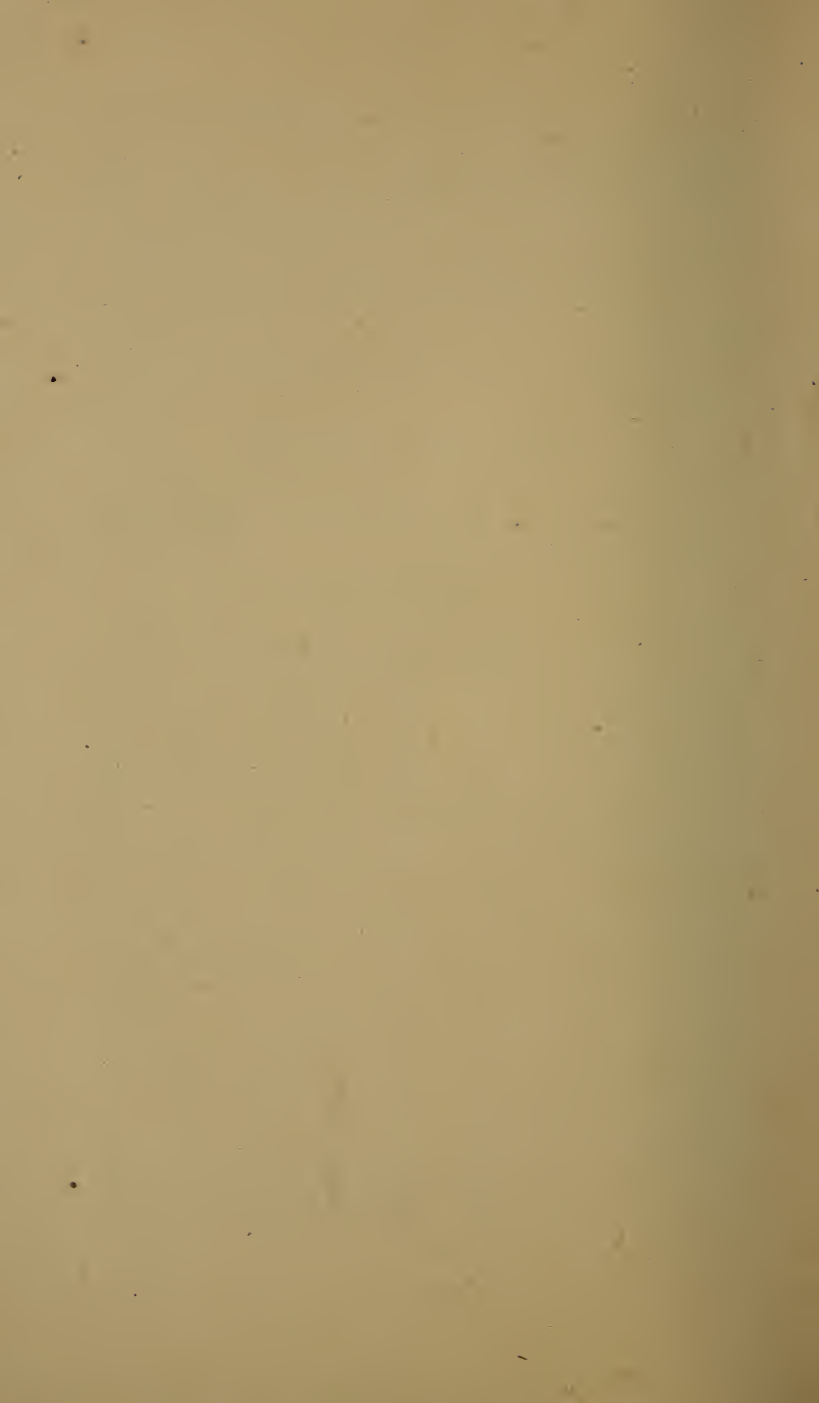
TABLE XIX.—STATEMENT OF QUININE ISSUED.

	Kilos.
Quinine sulphate.....	15
Quinine sulphate tablets.....	6
Total.....	21

Pounds avoirdupois, 46.30.

TABLE XX.—PERSONNEL REPORT.

	October, 1914.			September, 1914.	October, 1913.
	Officers and em- ployees.	Skilled and un- skilled labor.	Total.	Total.	Total.
Chief health office.....	3		3	6	32
Medical storehouse.....	5	3	8	7	9
Quarantine division.....	21	19	40	45	41
Health office, Panama.....	20	118	138	148	158
Health office, Colon.....	18	130	148	149	124
Ancon Hospital.....	247	110	357	374	544
Colon Hospital.....	23	11	34	37	176
Santo Tomas Hospital.....	5		5	5	6
Tabora Sanitarium.....					20
Palo Seco Leper Asylum.....	12	12	24	24	14
Zone sanitation.....	21	91	112	109	182
Hospital farm.....	1	55	56	59	25
Dispensaries:					
Ancon.....					5
Balboa.....	5		5	6	5
Bas Obispo.....					4
Corozal.....	4		4	5	6
Cristobal.....					6
Culebra.....	3		3	3	6
Empire.....					6
Gamboa.....	1		1	1	
Gatun.....	5		5	4	8
Las Cascadas.....					3
Marganita Point.....	1		1	1	1
Frijoles.....					1
Naos Island.....	2		2	1	2
Paraiso.....	3		3	5	4
Pedro Miguel.....	3		3	3	4
Porto Bello.....					3
Toro Point.....					3
Total.....	403	519	952	992	1,398











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